



FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.2800008APPLICATION NO.  
09/229,173APPLICANT  
Deb K. CHATTERJEEFILING DATE  
January 13, 1999GROUP  
1643

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RH	AA1	6,001,645	12/14/1999	Slater et al.	435	320.1	6/7/95
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1						Yes No
	AM1						Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AT	1	

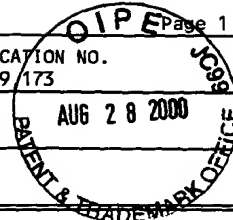
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7/27/01

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FORM PTO-1449  FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.2800008/RWE/RCM	APPLICATION NO. 09/229 173
	APPLICANT Deb K. CHATTERJEE	
	FILING DATE January 13, 1999	GROUP 1652



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
RH	AB1	4,795,699	01/03/1989	Tabor <i>et al.</i>	435	5	01/14/1987
RH	AC1	4,889,818	12/26/1989	Gelfand <i>et al.</i>	435	194	06/17/1987
RH	AD1	5,047,342	09/10/1991	Chatterjee, D.K.	435	194	08/10/1989
RH	AE1	H 1531	05/07/1996	Blumentals <i>et al.</i>	435	194	04/18/1994
RH	AF1	5,624,833	04/29/1997	Gelfand <i>et al.</i>	435	194	06/07/1995
RH	AG1	5,614,365	03/25/1997	Tabor <i>et al.</i>	435	6	11/10/1994
RH	AH1	6,077,664	06/20/2000	Slater <i>et al.</i>	435	6	05/31/1996
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RH	AL1	WO 92/03556	03/05/92	WIPO	—	—	Yes No
RH	AM1	WO 92/06200	04/16/92	WIPO	—	—	Yes No
RH	AN1	WO 92/06202	04/16/92	WIPO	—	—	Yes No
RH	AO1	WO 96/38568	12/5/96	WIPO	—	—	Yes No
RH 7/1/03	AP1	EP 0 655 506	05/31/95	Europe	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RH	AR	1	Bergquist, P.L. <i>et al.</i> , "Genetics and Potential Biotechnological Applications of Thermophilic and Extremely Thermophilic Microorganisms," <i>Biotech. Genet. Eng. Rev.</i> 5:199-244 (1987).
RH	AS	1	Bernad, A. <i>et al.</i> , "A Conserved 3'-5' Exonuclease Active Site in Prokaryotic and Eukaryotic DNA Polymerases," <i>Cell</i> 59:219-228 (1989).
RH	AT	1	Braithwaite, D.K. <i>et al.</i> , "Compilation, alignment, and phylogenetic relationships of DNA polymerases," <i>Nuc. Acids Res.</i> 21:787-802 (1993).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RH	AL2	WO 96/41014	12/19/1996	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RH	AR	2	Chien, A. et al., "Deoxyribonucleic Acid Polymerase from Extreme Thermophile <i>Thermus aquaticus</i> ," <i>J. Bacteriol.</i> 127:1550-1557 (1976).
RH	AS	2	Darzins, A. and Chakrabarty, A.M. "Cloning of Genes Controlling Alginate Biosynthesis from a Mucoïd Cystic Fibrosis Isolate of <i>Pseudomonas aeruginosa</i> ," <i>J. Bacteriol.</i> 159:9-18 (1984).
RH	AT	2	Derbyshire, V. et al., "The 3'-5' exonuclease of DNA polymerase I of <i>Escherichia coli</i> : contribution of each amino acid at the active site to the reaction", <i>EMBO J.</i> 10:17-24 (1990).

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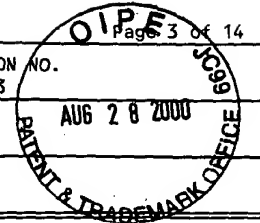
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RH	AR	3	Derbyshire, V. et al., "Genetic and Crystallographic Studies of the 3',5'-Exonucleolytic Site of DNA Polymerase I," <i>Science</i> 240:199-201 (1988).
RH	AS	3	Elie, C. et al., "Thermostable DNA polymerase from the archaebacterium <i>Sulfolobus acidocaldarius</i> : Purification, characterization, and immunological properties," <i>Eur. J. Biochem.</i> 178:619-626 (1989).
RH	AT	3	Gutman, D. et al., "Conserved sites in the 5'-3' exonuclease domain of <i>Escherichia coli</i> DNA polymerase," <i>Nuc. Acids Res.</i> 21:4406-4407 (1993).

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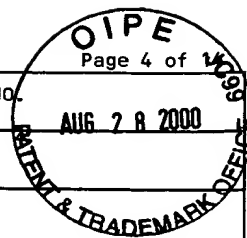
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RH	AR	4	Huber, R. et al., "Thermotoga maritima sp. nov. represents a new genus of unique extremely thermophilic eubacteria growing up to 90 degree celsius," Arch. Microbiol. 144:324-333 (1986).
RH	AS	4	Huser, B.A. et al., "Isolation and characterization of a novel extremely thermophilic, anaerobic, chemo-organotrophic eubacterium," FEMS Microbiol. Lett. 37:121-127 (1986).
RH	AT	4	Jannasch, H.W. et al., "Thermotoga neapolitana sp. nov. of the Extremely Thermophilic, Eubacterial Genus Thermotoga," Arch. Microbiol. 150:103-104 (1988)

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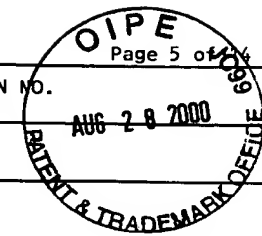
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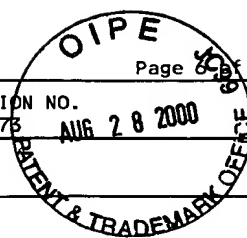
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RH	AR	5	Joyce, C.M. "Can DNA polymerase I (Klenow fragment) serve as a model for other polymerases?," <i>Curr. Opin. Struct. Biol.</i> 1:123-129 (1991).
RH	AS	5	Kaboev, O.K. et al., "Purification and Properties of Deoxyribonucleic Acid Polymerase from <i>Bacillus stearothermophilus</i> ," <i>J. Bacteriol.</i> 145:21-26 (1981).
RH	AT	5	Kaledin, A.S. et al., "Isolation and Properties of DNA Polymerase from Extremely Thermophilic <i>Bacterium Thermus aquaticus</i> YT1," <i>Biokhimiya</i> 45:644-651 (1980).

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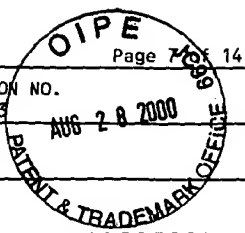
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RH	AR	6	Kelly, R.M. and Deming, J.W., "Extremely Thermophilic Archaeobacteria: Biological and Engineering Considerations," <i>Biotechnol. Prog.</i> 4:47-62 (1988).
RH	AS	6	Klimczak, L.J. et al., "Purification and Characterization of DNA Polymerase from the Archaeobacterium <i>Methanobacterium thermoautotrophicum</i> ," <i>Biochem.</i> 25:4850-4855 (1986).
RH	AT	6	Lin, T.-C. et al., "Cloning and expression of a T4 DNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 84:7000-7004 (1987).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RH	AR	Z	Minkley, E.G. et al., "Escherichia coli DNA Polymerase I," J. Biol. Chem. 259:10386-10392 (1984).
RH	AS	Z	Ollis, D.L. et al., "Structure of large fragment of Escherichia coli DNA polymerase I complexed with dTMP," Nature 313:762-766 (1985).
RH	AT	Z	Polesky, A.H. et al., "Side Chains Involved in Catalysis of the Polymerase Reaction of DNA Polymerase I from Escherichia coli, J. Biol. Chem.," 267:8417-8428 (1992).
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RH	AR	8	Polesky, A.H. <i>et al.</i> , "Identification of Residues Critical for the Polymerase Activity of the Klenow Fragment of DNA Polymerase I from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265:14579-14591 (1990).
RH	AS	8	Rossi, M. <i>et al.</i> , "Structure and Properties of a Thermophilic and Thermostable DNA Polymerase Isolated from <i>Sulfolobus solfataricus</i> ," <i>System. Appl. Microbiol.</i> 7:337-341 (1986).
RA	AT	8	Sagner, G. <i>et al.</i> , "Rapid filter assay for the detection of DNA polymerase activity: direct identification of the gene for the DNA polymerase from <i>Thermus aquaticus</i> ," <i>Gene</i> 97:119-123 (1991).

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	AP						Yes No

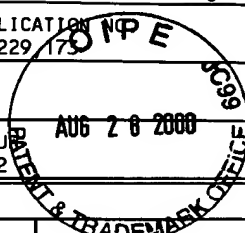

  

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RH	AR	2	Shengyu <i>et al.</i> , "Heat-Stable DNA Polymerase I Large Fragment Resolves Hairpin Structure In DNA Sequencing," <i>Scientia Sinica</i> 30:503-507 (1987).
RH	AS	2	Slater <i>et al.</i> , "DNA Polymerase I of <i>Thermotoga Neopolitane</i> (Tne) and Mutant Derivatives," Seventh International Genome Sequencing and Analysis Conference, 16-20 September, 1995, Abstract.
RH	AT	2	Simpson, H.D <i>et al.</i> , "Purification and some properties of a thermostable DNA polymerase from a <i>Thermotoga</i> species," <i>Biochem. Cell Biol.</i> 86:1292-1296 (1990).

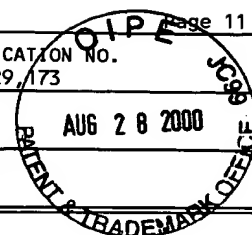
  

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
RH	AR	10	Stenesh, J. and Roe, B.A., "DNA Polymerase from Mesophilic and Thermophilic Bacteria, I. Purification and properties of DNA polymerase from <i>Bacillus licheniformis</i> and <i>Bacillus stearothermophilus</i> ," <i>Biochim. Biophys. Acta</i> 272:156-166 (1972).				
RH	AS	10	Windberger, E. et al., "Thermotoga thermarum sp. nov. and <i>Thermotoga neapolitana</i> occurring in African continental solfataric springs," <i>Arch. Microbiol.</i> 151:506-512 (1989).				
RH	AT	10	International Search Report from Application No. PCT/US96/14189, mailed November 26, 1996.				
EXAMINER		 <span style="font-size: 1.5em; margin-left: 200px;">11/15/10</span>					
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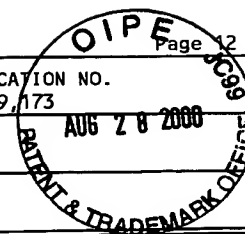
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RH	AR	11	International Search Report from Application No. PCT/US95/12358, mailed March 14, 1996.
RH	AS	11	Astatke, M. <i>et al.</i> , "Deoxynucleoside Triphosphate and Pyrophosphate Binding Sites in the Catalytically Competent Ternary Complex for the Polymerase Reaction Catalyzed by DNA Polymerase I (Klenow Fragment)," <i>J. Biol. Chem.</i> 270(4):1945-1954 (January 27, 1995).
RH	AT	11	Blanco, L. <i>et al.</i> , "Evidence Favouring the Hypothesis of a Conserved 3'-5' Exonuclease Active Site in DNA-dependent DNA Polymerases," <i>Gene</i> 112:139-144 (1992).

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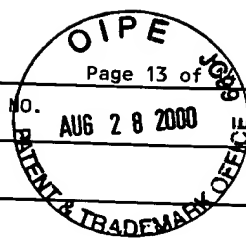
RIH	AR	12	Freemont, P.S. et al., "A Domain of the Klenow Fragment of <i>Escherichia coli</i> DNA Polymerase I Has Polymerase but No Exonuclease Activity," <i>Proteins</i> 1(1):66-73 (1986).
RIH	AS	12	Gerard, G.F. et al., "Poly(2'-O-methylcytidylate)•Oligodeoxyguanylate as a Template for the Ribonucleic Acid Directed Deoxyribonucleic Acid Polymerase in Ribonucleic Acid Tumor Virus Particles and a Specific Probe for the Ribonucleic Acid Directed Enzyme in Transformed Murine Cells," <i>Biochemistry</i> 13(8):1632-1641 (1974).
RIH	AT	12	Joyce, C.M. et al., "Nucleotide Sequence of the <i>Escherichia coli</i> polA Gene and Primary Structure of DNA Polymerase I," <i>J. Biol. Chem.</i> 257(4):1958-1964 (1982).

EXAMINER

DATE CONSIDERED

11/15/00

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

ATTY. DOCKET NO.  
0942.2800008/RWE/RCMAPPLICATION NO.  
09/229,173

AUG 28 2000

## FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

APPLICANT  
Deb K. CHATTERJEEFILING DATE  
January 13, 1999GROUP  
1652

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

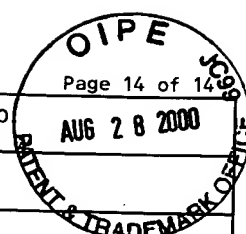
RH	AR	13	Joyce, C.M. and Steitz, T.A., "Function and Structure Relationships in DNA Polymerases," <i>Annu. Rev. Biochem.</i> 63:777-822 (July 1994).
RH	AS	13	Modak, M.J. and Marcus, S.L., "Purification and Properties of Rauscher Leukemia Virus DNA Polymerase and Selective Inhibition of Mammalian Viral Reverse Transcriptase by Inorganic Phosphate," <i>J. Biol. Chem.</i> 252(1):11-19 (1977).
RH	AT	13	Spadari, S. and Weissbach, A., "HeLa Cell R-Deoxyribonucleic Acid Polymerases. Separation and Characterization of Two Enzymatic Activities," <i>J. Biol. Chem.</i> 249(18):5809-5815 (1974).

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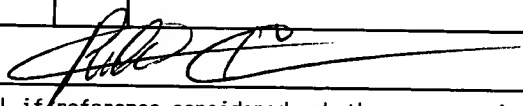
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RA	AR	14	Tabor, S. and Richardson, C.C., "A Single Residue in DNA Polymerases of the <i>Escherichia coli</i> DNA Polymerase I Family is Critical for Distinguishing Between Deoxy- and Dideoxyribonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> 92:6339-6343 (July 1995).
	AS		
	AT		

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